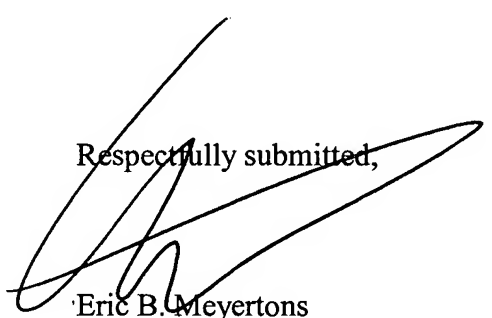


Inventors: Lin et al.
Appl. Ser. No.: 10/633,511
Atty. Dckt. No.: 5937-00500

Applicant believes no fees are due with this submission. Should any other fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5937-00500/EBM.

Respectfully submitted,



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ATTY. DOCKET NO: 5937-00500

APPLICANT: Lin et al.

FILING DATE: August 5, 2003

SERIAL NO: 10/633,511

GROUP: 1732

CONF. NO.: 5420

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	P1	3679360	25-Jul-1972	Rubin et al.			
	P2	4371484	1-Feb-1984	Inukai et al.			
	P3	4481175	6-Nov-1984	Iino et al.			
	P4	4612053	16-Sep-1986	Brown et al.			
	P5	RE33161	6-Feb-1990	Brown et al.			
	P6	4959104	25-Sep-1990	Iino et al.			
	P7	5017518	21-May-1991	Hirayama et al.			
	P8	5164187	17-Nov-1992	Constantz et al.			
	P9	5149368	22-Sep-1992	Liu et al.			
	P10	5180426	19-Jan-1993	Sumita			
	P11	5,342,441	30-Aug-1994	Mandai et al.			
	P12	5492768	20-Feb-1996	Okimatsu et al.			
	P13	5496399	5-Mar-1996	Ison et al.			
	P14	5503164	2-Apr-1996	Friedman			
	P15	5550172	27-Aug-1996	Regula et al.			
	P16	5652016	29-Jul-1997	Shiro et al.			
	P17	5683496	4-Nov-1997	Ison et al.			
	P18	5697981	16-Dec-1997	Ison et al.			
	P19	5766669	16-Jun-1998	Pugh et al.			
	P20	5814681	29-Sep-1998	Hino et al.			
	P21	5820632	13-Oct-1998	Constantz et al.			
	P22	5846312	8-Dec-1998	Ison et al.			
	P23	5899939	4-May-1999	Boyce et al.			

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	P24	5964932	12-Oct-1999	Ison et al.			
	P25	5993535	30-Nov-1999	Sawamura et al.			
	P26	6013591	11-Jan-2000	Ying et al.			
	P27	6117456	12-Sep-2000	Lee et al.			
	P28	6123731	26-Sep-2000	Boyce et al.			
	P29	6162258	19-Dec-2000	Scarborough et al.			
	P30	6277149	21-Aug-2001	Boyle et al.			
	P31	6294041	25-Sep-2001	Boyce et al.			
	P32	6294187	25-Sep-2001	Boyce et al.			
	P33	6325987	4-Dec-2001	Sapieszko et al.			
	P34	6332779	25-Dec-2001	Boyce et al.			
	P35	6440444	27-Aug-2002	Boyce et al.			
	P36	6478825	12-Nov-2002	Winterbottom et al.			
	P37	6530955	11-Mar-2003	Boyle et al.			
	P38	6585992	1-Jul-2003	Pugh et al.			
	PA1	20020019635	14-Feb-2002	Wenstrom, Jr. et al.			
	PA2	20020073894	20-Jun-2002	Genge et al.			
	PA3	20030031698	13-Feb-2003	Roeder et al.			

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EXAM. INITIALS	REF. DES		DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO N. YES/NO
	B1	06-228011	16-Aug-1994	JP			Abstract
	B2	WO 03/055418	10-Jul-2003	PCT			

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	C1	Sugawara et al., "Calcium Phosphate Cement: An In Vitro study of Dentin Hypersensitivity", The Journal of the Japanese Society for Dental Materials and Devices, 1989, Vol. 8, pp. 282-294.					
	C2	Pickel et al., "The Effect of a Chewing Gum Containing Dicalcium Phosphate on Salivary Calcium and Phosphate", Ala. J. Med. Sci. 1965, Vol. 2, pp. 286-287.					
	C3	Matsuya et al., "Effects of pH on the Reactions of Tetracalcium Phosphate and Dicalcium Phosphate", IADR Abstract 1991.					
	C4	Sugawara et al., "Formation of Hydroxyapatite in Hydrogels from Tetracalcium Phosphate/Dicalcium Phosphate Mixtures," J. Nihon. Univ. Sch. Dent., 1989, Vol. 31, pp 372-381.					
	C5	Hong et al., "The Periapical Tissue Reactions to a Calcium Phosphate Cement in the Teeth of Monkeys," J Biomed Mater Res. April 1991, Vol. 25(4), pp. 485-98.					
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	C7	Groninger et al. "Evaluation of the Biocompatibility of a New Calcium Phosphate Setting Cement," J. Dent Res. 1984, 63 Abst. No. 270 (4 pages).					
	C8	Costantino et al., "Evaluation of a New Hydroxyapatite Cement: Part III, Cranioplasty in a Cat Model, The Fifth Intl. Symposium on Facial Plastic Reconstructive Surgery of the Head and Neck, Toronto, Canada 1989. (18 pages)					
	C9	Shindo, et al., "Facial Skeletal Augmentation Using Hydroxyapatite Cement," Arch. Otolaryngol. Head Neck Surg. 1993, Vol. 119, pp. 185-190.					
	C10	Briner et al., "Significance of Enamel Remineralization", J. Dent. Res. 1974, Vol. 53, pp. 239-243.					
	C11	Silverstone, "Remineralization Phenomena", Caries Res. 1977, Vol. 11 (Supp. 1), pp. 59-84.					
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	C15	Miyazaki et al., "An Infrared Spectroscopic Study of Cement Formation of Polymeric Calcium Phosphate Cement," Jour of the Jap. Society for Dent Mats & Devices, 1992, Vol. II, No. 2. (8 pages).					
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	C17	Hiatt et al., "Root Preparation I. Obduction of Dentinal Tubules in Treatment of Root Hypersensitivity", J. Periodontal, 1972, Vol. 43, pp. 373-380.					
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	C19	Salyer et al., "Porous Hydroxyapatite as an Onlay Bone-Graft Substitute for Maxillofacial Surgery," Presented at the 54 th Annual Scientific Meeting of the American Society of Plastic and Reconstructive Surgeons, Kansas City, Missouri, 1985, pp. 236-244.					
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	C23	Verwoerd, et al. "Porous Hydroxyapatite-perichondrium Graft in Cricoid Reconstruction, Acta Otolaryngol" 1987, Vol. 103, pp. 496-502.					
	C24	Grote, "Tympanoplasty With Calcium Phosphate," Arch Otolaryngology 1984, Vol. 110, pp. 197-199.					
	C25	Kent et al., "Alveolar Ridge Augmentation Using Nonresorbable Hydroxyapatite with or without Autogenous Cancellous Bone," J. Oral Maxillofac Surg 1983, Vol. 41, pp. 629-642.					
	C26	Piecuch, "Augmentation of the Atrophic Edentulous Ridge with Porus Replamineform Hydroxyapatite (Interpore-200)," Dental Clinics of North America 1985, Vol. 30(2), pp. 291-305.					
	C27	Misch, "Maxillary Sinus Augmentation for Endosteal Implants: Organized Alternative Treatment Plans," Int J Oral Implant 1987, Vol. 4(2), pp. 49-58.					
	C28	Chohayeb, A. A. et al., "Evaluation of Calcium Phosphate as a Root Canal Sealer-Filler Material," J Endod 1987, Vol. 13, pp. 384-386.					
	C29	Brown et al., "Crystallography of Tetracalcium Phosphate," Journal of Research of the National Bureau of Standards. A. Physics and Chemistry. 1965, Vol. 69A, pp. 547-551.					
	C30	Sanin et al. "Particle Size Effects on pH and Strength of Calcium Phosphate Cement," IADR Abstract 1991.					
	C31	Chow et al., "X-ray Diffraction and Electron Microscopic Characterization of Calcium Phosphate Cement Setting Reactions," IADR Abstract, 1987. (1 page)					
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	C33	Brown, "Solubilities of Phosphates and Other Sparingly Soluble Compounds", Environmental Phosphorous Handbook 1973, pp. 203-239. (John Wiley & Sons, New York)					

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	C35	Gregory et al., "Solubility of $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$ in the System $\text{Ca}(\text{OH})_2$ -- H_3PO_4 -- H_2O at 5, 15, 25, and 37.5 °C.," J. Res. Nat. Bur. Stand. 1970, Vol 74A, pp. 461-475.				
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	C37	McDowell et al., "Solubility of B-- $\text{Ca}_5(\text{PO}_4)_3\text{OH}$ in the System $\text{Ca}(\text{OH})_2$ -- H_3PO_4 -- H_2O at 5, 15, 25 and 37 °C.," J. Res. Nat. Bur. Stand. 1977, Vol. 91A, pp. 273-281.				
	C38	McDowell et al., "Solubility Study of Calcium Hydrogen Phosphate. Ion Pair Formation," Inorg. Chem. 1971, Vol. 10, pp. 1638-1643.				
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	C40	Chow et al, "Self-Setting Calcium Phosphate Cements," Mat. Res. Soc. Symp. Proc. pp. 3-23.				
	C41	Miyazaki et al., "Chemical Change of Hardened PCA/CPC Cements in Various Storing Solutions", The Journal of the Japanese Soc. for Dental Materials and Devices, 1992, Vol. 11, No. 2.				
	C42	Fukase et al, "Thermal Conductivity of Calcium Phosphate Cement", IADR Abstract, 1990 (1 page).				
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	C45	Link et al., "Composite of Calcium Phosphate Cement and Genetically Engineered Protein Bioadhesive," IADR Abstract 1991. (1 page)				
	C46	Matsuya et al., "Effects of pH on the Reactions of Tetracalcium Phosphate and Dicalcium Phosphate", IADR Abstract 1991. (1 page).				
	C47	Briner et al., "Significance of Enamel Remineralization", J. Dent. Res. 1974, Vol. 53, pp. 239-243.				
	C48	Chow, "Development of Self-Setting Calcium Phosphate Cements", Journal of The Ceramic Society of Japan, 1991, Vol. 99 [10], pp. 954-964.				
	C49	Brown et al., A New Calcium Phosphate, Water Setting Cement, Cements Research Progress 1986, P. W. Brown, Ed., Westerville, Ohio: American Ceramic Society, 1988, pp. 352-379.				
	C50	Sugawara et al., "Evaluation of Calcium Phosphate as a Root Canal Sealer-Filler Material" IADR/AADR Abstract, 1987, (3 pages).				
	C51	Sugawara et al., "In Vitro Evaluation of the Sealing Ability of a Calcium Phosphate Cement When Used as a Root Canal Sealer Filler," J. Endodontics, 1989, Vol 16, pp 162-165.				
	C52	Chow, "Calcium Phosphate Materials: Reactor Response" Adv Dent Res 1988, Vol 2(1), pp. 181-184.				

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	C53	Fukase et al., "Setting Reactions and Compressive Strengths of Calcium Phosphate Cements", J Dent Res 1990, Vol 69(12), pp. 1852-1856.				
	C54	Miyazaki et al., "Chemical Change of Hardened PCA/CPC Cements in Various Storing Solutions", The Journal of the Japanese Soc. for Dental Materials and Devices, 1992, Vol. 11, No. 2, pp.48-64.				
	C55	U.S. Patent and Trademark Office, "Office communication" for U.S. Application Serial No. 10/944,278 mailed February 22, 2005 (8 pages).				
	C56	Claims from Co-Pending United States Patent Appl. Ser. No. 10/773,701, 3 pages				
	C57	Claims from Co-Pending United States Patent Appl. Ser. No. 10/944,278, 3 pages				
	C58	Claims from Co-Pending United States Patent Appl. Ser. No. 10/940,922, 4 pages				
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	C61	Claims from Co-Pending United States Patent Appl. Ser. No. 10/982,660, 3 pages				
	C62	Claims from Co-Pending United States Patent Appl. Ser. No. 10/145,901, 3 pages				
	C63	Claims from Co-Pending United States Patent Appl. Ser. No. 10/607,023, 1 page				
	C64	Claims from Co-Pending United States Patent Appl. Ser. No. 10/414,582,				
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	C71	PCT/US04/11637 International Search Report/Written Opinion, mailed Oct. 14, 2004				

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